

Notice of Allowability

Application No.

10/635,635

Examiner

Wayne Cai

Applicant(s)

BONNARD ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/20/2007.
2. ☒ The allowed claim(s) is/are 1,2,4-25 and 27-41.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Diallo T. Crenshaw (Reg. No. 52,778) on November 19, 2007.

The application has been amended as follows:

Claim 1 (Currently Amended) A method of treating location data for a mobile telephone device ~~{UE-i}~~ which can move in geographical areas ~~{Gj}~~ of a communication network, said geographical areas ~~{Gj}~~ being defined by sets of at least one location parameter,

characterized in that said method comprises the following steps:

- i) detection of the geographical area ~~{Gj}~~ in which said mobile telephone device ~~{UE-i}~~ is located at predetermined times,
- ii) temporary storage of a set of location parameters representative of said detected geographical area,
- iii) analysis of said sets of location parameters stored at chosen intervals, and
- iv) storage of each set of location parameters satisfying at least one chosen criterion,

wherein said analysis comprises determining all the sets of location parameters and then counting out each set of location parameters, and in that each set of location

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parameters is stored in association with a number greater than a chosen threshold, said chosen criterion consisting of crossing said threshold to a value above said threshold.

Claim 2 (Original) A method according to claim 1, characterized in that said detection is periodic.

Claim 3 (Cancelled)

Claim 4 (Previously Presented) The method according to claim 2, characterized in that said analysis comprises determining all the sets of location parameters and then counting out each set of location parameters, and in that each set of location parameters is stored in association with a number greater than a chosen threshold, said chosen criterion consisting of crossing said threshold to a value above said threshold.

Claim 5 (Previously Presented) The method according to claim 1, characterized in that said analysis comprises determining all the different sets of location parameters and then counting out each of said different sets of location parameters to determine their respective relative proportions, and in that each set of location parameters is stored in association with a proportion greater than a chosen threshold, said chosen criterion consisting in the crossing of said threshold to a value above said threshold.

Claim 6 (Previously Presented) The method according to claim 2, characterized in that said analysis comprises determining all the different sets of location parameters and then counting out each of said different sets of location parameters to determine their respective relative proportions, and in that each set of

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location parameters is stored in association with a proportion greater than a chosen threshold, said chosen criterion consisting in the crossing of said threshold to a value above said threshold.

Claim 7 (Original) A method according to claim 1, characterized in that said detected geographical area is stored temporarily in corresponding relationship to at least its time of detection.

Claim 8 (Original) A method according to claim 2, characterized in that said detected geographical area is stored temporarily in corresponding relationship to at least its time of detection.

Claim 9 (Original) A method according to claim 1, characterized in that said set of location parameters is stored, after analysis, in corresponding relationship to chosen information.

Claim 10 (Original) A method according to claim 2, characterized in that said set of location parameters is stored, after analysis, in corresponding relationship to chosen information.

Claim 11 (Original) A method according to claim 7, characterized in that said information is representative of a time interval associated with each set of location parameters satisfying said chosen criterion.

Claim 12 (Original) A method according to claim 9, characterized in that said information is representative of a time interval associated with each set of location parameters satisfying said chosen criterion.

Claim 13 (Original) A method according to claim 1, characterized in that it includes an additional step in which a chosen status is associated with said stored sets of location parameters.

Claim 14 (Previously Presented) A method according to claim 13 wherein said set of location parameters is stored, after analysis, in corresponding relationship to chosen information, and further characterized in that said status association is effected automatically as a function of said information.

Claim 15 (Previously Presented) A method according to claim 14 wherein said information is representative of a time interval associated with each set of location parameters satisfying said chosen criterion, and further characterized in that said status association is effected automatically as a function of said information.

Claim 16 (Currently Amended) A method according to claim 13, characterized in that said status association is initiated by the user of said mobile telephone device ~~(UE-i)~~ by selecting a status from a set of statuses displayed on a screen of his mobile telephone device ~~(UE-i)~~.

Claim 17 (Currently Amended) A method according to claim 13, characterized in that said status is a field associated with an operating configuration of said mobile telephone device ~~(UE-i)~~.

Claim 18 (Original) A method according to claim 17, characterized in that said field is selected from the group including at least "Home", "Office" and "Other" fields.

Claim 19 (Currently Amended) A method according to claim 13, characterized in that said operating configuration is defined by the user of said mobile telephone device ~~(UE-i)~~.

Claim 20 (Original) A method according to claim 13, characterized in that at least two different sets of location parameters satisfying said criterion can be associated with the same status.

Claim 21 (Original) A method according to claim 1, characterized in that each set of location parameters includes at least one parameter representative of a network cell identifier.

Claim 22 (Original) A method according to claim 13, characterized in that each set of location parameters includes at least one parameter representative of a network cell identifier.

Claim 23 (Currently Amended) A method according to claim 21, characterized in that some sets of location parameters include at least one complementary parameter selected from the group including radio information representative of the received power of a base station ~~(Node-B)~~ controlling said cell and/or the distance to the base station ~~(Node-B)~~ controlling said cell.

Claim 24 (Currently Amended) A location data processing device ~~(D)~~ for a mobile telephone device ~~(UE-i)~~ which can move in geographical areas ~~(Gj)~~ of a communication network defined by sets of at least one location parameter, characterized in that it includes processing means ~~(M)~~ ~~adapted-i)~~ to determine the geographical area ~~(Gj)~~ in which the mobile telephone device ~~(UE-i)~~ is located at

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predetermined times, and then to store temporarily a set of location parameters representative of said detected geographical area, and ii) to analyze said sets of location parameters stored at chosen intervals, in order to store each set of location parameters satisfying at least one chosen criterion,

wherein said processing means are adapted to effect said analysis on the basis of a determination of different sets of location parameters, followed by counting out each set of location parameters, and to store each set of location parameters in association with a number above a chosen threshold, said chosen criterion consisting in the crossing of said threshold to a value above said threshold.

Claim 25 (Original) A device according to claim 24, characterized in that said processing means are adapted to effect said detection periodically.

Claim 26 (Cancelled)

Claim 27 (Currently Amended) A device according to claim 24, characterized in that said processing means ~~(M)~~ are adapted to effect said analysis on the basis of determining different sets of location parameters followed by counting out of each of said different sets of location parameters to determine their respective relative proportions, and to store each set of location parameters in association with a proportion above a chosen threshold, said chosen criterion consisting in the crossing of said threshold to a value above said threshold.

Claim 28 (Currently Amended) A device according to claim 24, characterized in that said processing means ~~(M)~~ are adapted to store said detected geographical area temporarily in corresponding relationship to at least one detection time.

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Claim 29 (Currently Amended) A device according to claim 24, characterized in that said processing means ~~(M)~~ are adapted to store said set of location parameters, after analysis, in corresponding relationship to chosen information.

Claim 30 (Original) A device according to claim 28, characterized in that said information is representative of a time interval associated with each set of location parameters satisfying said chosen criterion.

Claim 31 (Original) A device according to claim 29, characterized in that said information is representative of a time interval associated with each set of location parameters satisfying said chosen criterion.

Claim 32 (Currently Amended) A device according to claim 24, characterized in that said processing means ~~(M)~~ are adapted to associate said stored sets of location parameters with a chosen status.

Claim 33 (Currently Amended) A location data processing device ~~(D)~~ for a mobile telephone device ~~(UE-i)~~ which can move in geographical areas ~~(Gj)~~ of a communication network defined by sets of at least one location parameter, characterized in that it includes processing means ~~(M)~~ adapted i) to determine the geographical area in which the mobile telephone device is located at predetermined times, and then to store temporarily a set of location parameters representative of said detected geographical area, and ii) to analyze said sets of location parameters stored at chosen intervals, in order to store each set of location parameters satisfying at least one chosen criterion, wherein said processing means ~~(M)~~ are adapted to effect said status association automatically as a function of said information, and

wherein said processing means are adapted to effect said analysis on the basis of a determination of different sets of location parameters, followed by counting out each set of location parameters, and to store each set of location parameters in association with a number above a chosen threshold, said chosen criterion consisting in the crossing of said threshold to a value above said threshold.

Claim 34 (Currently Amended) A device according to claim 32, characterized in that said processing means ~~(M)~~ are adapted to effect said status association after selection by the user of said mobile telephone device ~~(UE-i)~~ of a status from a set of statuses displayed on a screen of the mobile telephone device ~~(UE-i)~~.

Claim 35 (Currently Amended) A device according to claim 32, characterized in that said status is a field associated with an operating configuration of said mobile telephone device ~~(UE-i)~~.

Claim 36 (Original) A device according to claim 35, characterized in that said field is selected from a group including at least "Home", "Office" and "Other" fields.

Claim 37 (Currently Amended) A device according to claim 32, characterized in that said operating configuration is defined by the user of said mobile telephone device ~~(UE-i)~~.

Claim 38 (Currently Amended) A device according to claim 32, characterized in that said processing means ~~(M)~~ are adapted to associate at least two different sets of location parameters satisfying said criterion with the same status.

Claim 39 (Original) A device according to claim 24, characterized in that each set of location parameters includes at least one parameter representative of a network cell identifier.

Claim 40 (Currently Amended) A device according to claim 39, characterized in that some sets of location parameters include at least one additional parameter selected from a group including radio information representative of the receive power of a base station ~~(Node B)~~ controlling said cell and/or the distance to the base station ~~(Node B)~~ controlling said cell.

Claim 41 (Currently Amended) A mobile telephone device ~~(UE-i)~~ able to move in geographical areas ~~(Gi)~~ of a communication network defined by sets of at least one location parameter, characterized in that it includes a processing device ~~(D)~~ according to claim 24.

(END OF AMENDMENT)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Cai whose telephone number is (571) 272-7798. The examiner can normally be reached on Monday - Thursday from 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Wayne Cai
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DUC M. NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600